

**Księżycy planet i planet karłowatych Układu Słonecznego**  
(elementy orbit odniesione do ekliptyki epoki 2000,0)  
wg stanu na dzień 24 listopada 2023

Nazwa	a		P	e	i	Średnica [km]	Odkrywcą i rok odkrycia	m
	R	tys. km						
<b>Ziemia (1)</b>								
Księżyc	60.268	384.4	27.322	0.0549	5.145	3474		-12.7
<b>Mars (2)</b>								
Phobos	2.76	9.376	0.319	0.0151	1.093	27.0×21.4×19.2	A. Hall 1877	12.5
Deimos	6.91	23.458	1.262	0.0003	0.93	15.0×12.2×11.0	A. Hall 1877	13.6
<b>Jowisz (95)</b>								
Metis	1.79	128	+0.2948	0.0002	0.060	60×40×34	Synnott 1980	17.5
Adrastea	1.80	129	+0.2983	0.0015	0.030	20×16×14	Jewitt 1979	18.7
Amalthea	2.54	181.4	+0.4999	0.0032	0.374	250×146×128	Barnard 1892	14.1
Thebe	3.10	221.9	+0.6761	0.0175	1.076	116×98×84	Synnott 1980	16.0
Io	5.90	421.8	+1.7627	0.0041	0.050	3643	Galileo 1610	5.0
Europa	9.39	671.1	+3.5255	0.0090	0.470	3122	Galileo 1610	5.3
Ganymede	14.97	1070.4	+7.1556	0.0013	0.200	5262	Galileo 1610	4.6
Callisto	26.33	1882.7	+16.690	0.0074	0.192	4821	Galileo 1610	5.7
Themisto	103.49	7398.5	+130.03	0.340	43.8	≈9	Kowal & Roemer 1975	21.0
Leda	155.91	11146.4	+240.93	0.162	28.6	21.5	Kowal 1974	20.2
Ersa	159.47	11401	+249.23	0.116	29.1	≈3	Sheppard 2018	14.8
S/2018 J2	159.73	11419.7	+249.92	0.152	28.3	≈3	Sheppard 2022	22.9
Himalia	160.03	11440.6	+250.56	0.160	28.1	139.6	Perrine 1905	23.0
Pandia	160.59	11481	+251.91	0.179	29.0	≈3	Sheppard 2018	18.2
Lysithea	163.67	11700.8	+259.20	0.117	27.2	42.2	Nicholson 1938	16.6
Elara	163.83	11712.3	+259.64	0.211	27.9	79.9	Perrine 1905	22.4
S/2011 J3	163.89	11716.8	+259.84	0.192	27.6	≈3	Sheppard 2022	23.0
Dia	171.49	12260.3	+278.21	0.232	29.0	≈4	Sheppard et al. 2001	24.0
S/2018 J4	228.40	16328.5	+427.63	0.177	50.2	≈2	Sheppard 2023	23.1
Carpo	238.38	17042.3	+456.29	0.416	53.2	≈3	Sheppard 2003	23.4
Valetudo	261.49	18694.2	+527.61	0.217	34.5	≈1	Sheppard 2018	23.9
Euporie	269.48	19265.8	-550.69	0.148	145.7	≈2	Sheppard et al. 2002	23.3
S/2003 J 18	284.46	20336.3	-598.12	0.090	145.3	≈2	Gladman 2003	23.7
Eupheme	290.50	20768.6	-617.73	0.241	148.0	≈2	Sheppard 2003	23.6
S/2021 J3	290.62	20776.7	-618.33	0.239	147.9	≈2	Sheppard 2023	24.0
S/2010 J2	290.84	20793	-618.84	0.248	148.1	≈1	Veillet 2011	23.4
S/2016 J1	290.98	20802.6	-618.49	0.232	144.7	≈1	Sheppard 2017	22.8
Mneme	291.24	20821	-620.07	0.247	148.0	≈2	Sheppard & Gladman 2003	23.1
Euanthe	291.32	20827	-620.44	0.239	148.0	≈3	Sheppard et al. 2002	22.3
S/2003 J 16	292.10	20882.6	-622.88	0.243	148.0	≈2	Gladman 2003	23.3
Harpalyke	292.23	20892.1	-623.32	0.232	147.7	≈4	Sheppard et al. 2001	22.2
Orthosie	292.35	20901	-622.59	0.299	144.3	≈2	Sheppard et al. 2002	22.1
Helike	292.56	20915.7	-626.33	0.153	154.4	≈4	Sheppard 2003	21.2
S/2021 J2	292.71	20926.6	-625.14	0.242	148.1	≈1	Sheppard 2023	23.5
Praxidike	292.84	20935.4	-625.39	0.246	148.3	7	Sheppard et al. 2001	23.4
S/2017 J 3	292.91	20941	-625.60	0.231	147.9	≈2	Sheppard 2018	22.6
S/2021 J1	293.11	20954.7	-627.14	0.228	150.5	≈1	Sheppard 2023	21.8
S/2003 J 12	293.22	20963.1	-627.24	0.235	150.0	≈1	Sheppard 2003	18.9
S/2017 J 7	293.25	20964.8	-626.56	0.233	147.3	≈2	Sheppard 2018	22.8
Thelxinoe	293.40	20976	-628.03	0.228	150.6	≈2	Sheppard & Gladman 2004	24.0
Thyone	293.43	20978	-627.18	0.233	147.5	≈4	Sheppard et al. 2002	23.5
S/2003 J 2	293.71	20997.7	-628.79	0.225	150.2	≈2	Sheppard 2003	23.7
Ananke	294.22	21034.5	-629.79	0.237	147.6	29.1	Nicholson 1951	23.7
S/2022 J3	294.41	21047.7	-630.67	0.249	148.2	≈1	Sheppard 2023	22.8
Iocaste	294.67	21066.7	-631.59	0.227	148.8	≈5	Sheppard et al. 2001	23.2
Hermippe	295.26	21108.5	-633.90	0.219	150.2	≈4	Sheppard et al. 2002	23.4
S/2017 J 9	304.49	21768.7	-666.11	0.200	155.5	≈3	Sheppard 2018	23.8
Philophrosyne	316.18	22604.6	-702.54	0.229	146.3	≈2	Sheppard 2003	22.5
S/2016 J3	317.79	22719.3	-713.64	0.251	164.6	≈2	Sheppard 2023	23.0
S/2022 J1	317.87	22725.2	-738.33	0.257	164.5	≈1	Sheppard 2023	22.5
Pasithee	319.57	22846.7	-719.47	0.270	164.6	≈2	Sheppard et al. 2002	22.7
S/2017 J 8	319.61	22849.5	-719.76	0.255	164.8	≈1	Sheppard 2018	23.5
S/2021 J6	319.90	22870.3	-720.97	0.271	164.9	≈1	Sheppard et al. 2023	24.0
S/2003 J 24	320.14	22887.4	-721.60	0.259	164.5	≈2	Sheppard et al. 2021	22.8
Eurydome	320.30	22899	-717.31	0.294	149.1	≈3	Sheppard et al. 2002	23.5
S/2011 J 2	320.44	22909.2	-718.32	0.355	151.9	≈1	Sheppard 2012	23.3
S/2003 J 4	320.69	22926.5	-718.10	0.328	148.2	≈2	Sheppard 2003	21.9
Chaldene	320.74	22930.5	-723.71	0.265	164.7	≈4	Sheppard et al. 2001	17.9
S/2017 J 2	321.06	22953.2	-724.71	0.272	164.5	≈2	Sheppard 2018	21.8
Isonoe	321.45	22981.3	-726.27	0.249	164.8	≈4	Sheppard et al. 2001	22.6
S/2022 J2	321.91	23013.8	-781.56	0.265	164.7	≈1	Sheppard 2023	22.5
S/2021 J4	321.99	23019.7	-728.28	0.265	164.6	≈1	Sheppard 2023	23.7

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Nazwa	a		P	e	i	Srednica [km]	Odkrywca i rok odkrycia	m
	R	tys. km						
<b>Jowisz (c.d.)</b>								
Kalichore	322.02	23021.8	-728.26	0.252	164.8	≈ 2	Sheppard 2003	21.8
Erinome	322.17	23032.9	-728.48	0.276	164.4	≈ 3	Sheppard et al. 2001	16.9
Kale	322.45	23052.6	-729.64	0.262	164.6	≈ 2	Sheppard et al. 2002	22.6
Eirene	322.49	23055.8	-729.84	0.258	164.6	≈ 4	Sheppard 2003	21.7
Aitne	322.62	23064.4	-730.10	0.277	164.6	≈ 3	Sheppard et al. 2002	18.3
Eukelade	322.66	23067.4	-730.30	0.277	164.6	≈ 4	Sheppard 2003	22.8
Arche	323.08	23097.8	-731.88	0.261	164.6	≈ 3	Sheppard 2002	22.5
Taygete	323.22	23108	-732.45	0.253	164.7	≈ 5	Sheppard et al. 2001	23.7
S/2016 J4	323.31	23113.8	-727.01	0.294	147.1	≈ 1	Sheppard 2023	24.0
S/2011 J 1	323.46	23124.5	-733.21	0.271	164.6	≈ 2	Sheppard 2012	23.6
Carme	323.73	23144.4	-734.19	0.256	164.6	46.7	Nicholson 1938	22.4
Herse	323.82	23150.5	-734.52	0.262	164.4	≈ 2	Gladman et al. 2003	20.8
S/2003 J 19	323.90	23156.4	-734.78	0.265	164.7	≈ 2	Gladman 2003	23.6
S/2010 J 1	324.37	23189.8	-736.51	0.252	164.5	≈ 2	Jacobson et al. 2011	23.2
S/2003 J 9	324.50	23199.4	-736.86	0.263	164.8	≈ 1	Sheppard 2003	23.6
S/2017 J 5	324.60	23206.2	-737.28	0.257	164.8	≈ 2	Sheppard 2018	23.2
S/2017 J 6	325.15	23245.3	-733.99	0.336	149.7	≈ 2	Sheppard 2018	23.5
Kalyke	325.95	23302.6	-742.02	0.260	164.8	6.9	Sheppard et al. 2001	21.8
Hegemone	326.59	23348.7	-739.81	0.358	152.6	≈ 3	Sheppard 2003	22.8
S/2018 J3	327.31	23400.3	-747.02	0.268	164.9	≈ 1	Sheppard 2023	23.9
S/2021 J5	327.51	23414.6	-747.74	0.272	164.9	≈ 2	Sheppard et al. 2023	23.6
Pasiphae	328.26	23468.2	-743.61	0.412	148.4	57.8	Melotte 1908	16.9
Sponde	329.31	23543.3	-748.29	0.322	149.3	≈ 2	Sheppard et al. 2002	23.0
S/2003 J 10	329.78	23576.3	-755.43	0.264	164.4	≈ 2	Sheppard 2003	23.8
Megaclite	330.73	23644.6	-752.86	0.421	149.8	≈ 5	Sheppard et al. 2001	21.7
Cyllene	330.87	23654.7	-751.97	0.419	146.8	≈ 2	Sheppard 2003	23.2
Sinope	331.28	23683.9	-758.85	0.264	157.3	35	Nicholson 1914	18.3
S/2017 J 1	332.13	23744.8	-756.41	0.328	145.8	≈ 2	Sheppard 2017	23.8
Aoede	332.60	23778.2	-761.42	0.436	155.7	≈ 4	Sheppard 2003	22.5
Autonoe	332.80	23792.5	-761.00	0.330	150.8	≈ 4	Sheppard et al. 2002	22.0
Callirrhoe	332.84	23795.5	-758.87	0.297	145.1	9.6	Scotti et al. 2000	20.8
S/2003 J 23	333.31	23829.3	-760.00	0.313	144.7	≈ 2	Sheppard 2004	23.9
Kore	338.57	24205.2	-776.76	0.328	141.5	≈ 2	Sheppard 2003	23.6
<b>Saturn (146)</b>								
S/2009 S1	≈1.941	117	≈ 0.47150	≈ 0.000	≈ 0.0	≈ 0.3	sonda Cassini 2009	28
(drobne ciata)	≈2.157	130	≈ 0.55	≈ 0.000	≈ 0.0	0.04-0.4 (Earhart)	sonda Cassini 2006	—
Pan	2.217	133.6	+0.57505	0.000	0.0	0.3	Showalter 1990	19
Daphnis	2.265	136.5	+0.59408	0.000	0.0	0.04-0.4	sonda Cassini 2005	24
Atlas	2.285	137.7	+0.60460	0.001	0.0	27.4	Voyager 1 1980	18.5
Prometheus	2.313	139.4	+0.61588	0.002	0.0	7.8	Voyager 1 1980	15.5
Pandora	2.351	141.7	+0.63137	0.004	0.0	29.8	Voyager 1 1980	16
Epimetheus	2.512	151.4	+0.69701	0.020	0.3	85.6	Fountain & Larson 1966	15
Janus	2.514	151.5	+0.69735	0.007	0.2	80.0	Dollfus 1966	14
Aegaeon	2.779	167.5	+0.80812	0.000	0.0	117.2	sonda Cassini 2008	27
Mimas	3.086	186	+0.94242	0.020	1.6	178.0	Herschel 1789	12.5
Methone	3.231	194.7	+1.00955	0.002	0.0	0.66	sonda Cassini 2004	25
Anthe	3.287	198.1	+1.03890	0.002	0.0	396.4	sonda Cassini 2007	26
Pallene	3.523	212.3	+1.15606	0.004	0.2	2.90	sonda Cassini 2004	25
Enceladus	3.956	238.4	+1.37022	0.005	0.0	1.8	Herschel 1789	11.5
Tethys	4.895	295	+1.88780	0.001	1.1	4.46	Cassini 1684	10
Telesto	4.895	295	+1.88780	0.001	1.2	504.2	Smith et al. 1980	18
Calypso	4.895	295	+1.88780	0.001	1.5	1062.2	Pascu et al. 1980	18.5
Dione	6.267	377.7	+2.73692	0.002	0.0	24.6	Cassini 1684	10
Helene	6.267	377.7	+2.73692	0.007	0.2	19.0	LaqueS& Lecacheux 1980	18
Polydeuces	6.267	377.7	+2.73692	0.019	0.2	1122.8	sonda Cassini 2004	25
Rhea	8.748	527.2	+4.51750	0.001	0.3	36.2	Cassini 1672	9
Titan	20.274	1221.9	+15.9454	0.029	0.3	3.06	Huygens 1655	8
Hyperion	24.582	1481.5	+21.2767	0.105	0.6	1527.6	Bond & Lassell 1848	14
Iapetus	59.098	3561.7	+79.3310	0.028	7.6	5149.46	Cassini 1671	10.5
S/2019 S1	186.590	11245.4	+445.51	0.334	45.71	270.0	Ashton et al. 2019	25.2
Kiviuq	187.617	11307.3	+449.13	0.316	46.44	1468.6	Gladman et al. 2000	22.0
S/2005 S4	187.902	11324.5	+450.22	0.623	44.38	≈ 6	Sheppard et al. 2005	25
S/2020 S1	188.138	11338.7	+451.10	0.164	174.8	≈ 19	Ashton et al. 2020	26
Ijiraq	188.236	11344.6	+451.46	0.364	45.13	≈ 5	Gladman et al. 2000	22.6
Phoebe	214.532	12929.4	-550.30	0.270	152.6	≈ 4	Pickering 1898	16
S/2006 S20	218.919	13193.8	-567.27	0.275	176.6	≈ 15	Sheppard et al. 2006	25.5
S/2006 S9	239.042	14406.6	-647.89	0.506	164.0	213.0	Sheppard et al. 2006	26
Paaliaq	248.843	14997.3	+687.08	0.478	33.98	≈ 5	Gladman et al. 2000	21.3
Skathi	258.431	15575.1	-728.10	0.469	35.01	≈ 3	Gladman et al. 2000	23.6
S/2007 S5	262.755	15835.7	-746.88	0.474	34.62	≈ 30	Sheppard et al. 2007	26
S/2007 S7	264.348	15931.7	-754.29	0.242	48.11	≈ 9	Sheppard et al. 2007	26
S/2007 S2	264.470	15939.1	-754.90	0.472	44.43	≈ 4	Sheppard et al. 2007	25.0

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Nazwa	a		P	e	i	Średnica [km]	Odkrywca i rok odkrycia	m
	R	tys. km						
<b>Saturn (c.d.)</b>								
S/2004 S37	264.492	15940.4	-754.48	0.447	158.2	≈ 4	Sheppard et al. 2004	25.1
S/2004 S47	266.320	16050.6	-762.49	0.291	160.9	≈ 4	Sheppard et al. 2004	26
S/2004 S40	266.735	16075.6	-764.60	0.297	169.2	≈ 4	Sheppard et al. 2004	26
Albiorix	270.941	16329.1	+783.49	0.470	38.9	28.6	Holman 2000	20.5
S/2019 S2	274.771	16559.9	-799.82	0.279	173.3	≈ 3	Ashton et al. 2019	26
Bebhionn	282.553	17028.9	+834.94	0.482	37.4	≈ 7	Sheppard et al. 2004	24.1
S/2007 S8	282.886	17049	+836.90	0.490	36.2	≈ 4	Sheppard et al. 2007	25.8
S/2004 S29	283.134	17063.9	+837.78	0.485	38.6	≈ 5	Sheppard et al. 2004	24.9
S/2019 S3	283.354	17077.2	-837.74	0.249	166.9	≈ 4	Ashton et al. 2019	26
S/2020 S7	288.710	17400	-861.70	0.500	161.5	≈ 3	Ashton et al. 2020	26.5
S/2004 S31	290.325	17497.3	+866.10	0.159	48.1	≈ 5	Sheppard et al. 2004	24.9
Erriapus	290.489	17507.2	+871.10	0.462	38.7	≈ 12	Gladman et al. 2000	23.0
Skoll	292.455	17625.7	-878.44	0.470	158.4	≈ 6	Sheppard et al. 2006	24.5
Tarqeq	294.488	17748.2	+884.98	0.119	49.7	≈ 7	Sheppard et al. 2007	23.9
S/2019 S14	296.227	17853	+893.14	0.172	46.2	≈ 4	Ashton et al. 2019	26
S/2020 S2	296.497	17869.3	-897.60	0.152	170.7	≈ 3	Ashton et al. 2020	26
Siarnaq	296.688	17880.8	+895.87	0.311	48.2	39.3	Gladman et al. 2000	20.1
S/2019 S4	297.948	17956.7	-904.26	0.409	170.1	≈ 3	Ashton et al. 2019	26
S/2020 S3	299.574	18054.7	+907.99	0.144	46.1	≈ 3	Ashton et al. 2020	26
S/2004 S41	300.242	18095	-914.61	0.300	165.7	≈ 4	Sheppard et al. 2004	26
S/2019 S6	301.963	18198.7	+916.70	0.084	48.1	≈ 4	Ashton et al. 2019	25.8
Tarvos	302.235	18215.1	+926.37	0.528	38.6	≈ 16	Gladman et al. 2000	22.1
S/2020 S4	302.574	18235.5	+926.92	0.495	40.1	≈ 3	Ashton et al. 2020	27
S/2004 S42	302.661	18240.8	-925.91	0.158	165.7	≈ 4	Sheppard et al. 2004	26
Hyrrokkin	304.351	18342.6	-931.89	0.331	150.3	≈ 9	Sheppard et al. 2004	23.5
Greip	304.978	18380.4	-936.98	0.317	173.4	≈ 6	Sheppard et al. 2006	24.4
S/2020 S5	305.159	18391.3	+933.88	0.220	48.2	≈ 3	Ashton et al. 2020	26
S/2004 S13	306.187	18453.3	-942.57	0.265	169.0	≈ 4	Sheppard et al. 2004	25
S/2007 S6	307.707	18544.9	-949.50	0.169	166.5	≈ 3	Sheppard et al. 2007	26
Mundilfari	308.461	18590.3	-952.95	0.210	168.4	≈ 8	Gladman et al. 2000	23.8
S/2006 S1	311.027	18745	-964.14	0.105	156.0	≈ 5	Sheppard et al. 2006	24.5
S/2004 S43	314.180	18935	-980.08	0.432	171.1	≈ 4	Sheppard et al. 2004	26
S/2006 S10	314.925	18979.9	-983.14	0.151	161.6	≈ 3	Sheppard et al. 2006	26
S/2019 S5	316.534	19076.9	-990.38	0.215	158.8	≈ 3	Ashton et al. 2019	26
Gridr	319.418	19250.7	-1004.75	0.187	163.9	≈ 5	Sheppard et al. 2004	25
Bergelmir	319.724	19269.1	-1005.58	0.144	158.7	≈ 6	Sheppard et al. 2004	24.2
Jarnsaxa	319.899	19279.7	-1006.92	0.219	163.0	≈ 5	Sheppard et al. 2006	24.7
Narvi	320.012	19286.5	-1003.84	0.449	143.7	≈ 8	Sheppard et al. 2003	23.8
Suttungr	321.758	19391.7	-1016.71	0.116	175.0	≈ 8	Gladman et al. 2000	23.9
S/2007 S3	323.782	19513.7	-1026.35	0.162	175.6	≈ 5	Sheppard et al. 2007	24.9
S/2004 S44	323.810	19515.4	-1026.16	0.129	167.7	≈ 5	Sheppard et al. 2004	25.4
S/2006 S12	324.713	19569.8	+1035.05	0.542	38.6	≈ 4	Sheppard et al. 2006	26
S/2004 S45	326.767	19693.6	-1038.70	0.551	154.0	≈ 4	Sheppard et al. 2004	25.5
Hati	326.825	19697.1	-1040.29	0.375	164.1	≈ 6	Sheppard et al. 2004	24.4
S/2004 S17	326.862	19699.3	-1040.86	0.162	167.9	≈ 4	Sheppard et al. 2004	25.4
S/2006 S11	327.071	19711.9	-1042.28	0.144	174.1	≈ 3	Sheppard et al. 2004	26
S/2004 S12	328.552	19801.2	-1048.57	0.337	164.7	≈ 4	Sheppard et al. 2004	25.0
Eggther	329.274	19844.7	-1052.33	0.157	165.0	≈ 6	Sheppard et al. 2004	24.5
S/2006 S13	331.084	19953.8	-1060.63	0.313	162.0	≈ 4	Sheppard et al. 2006	25.8
S/2007 S9	334.748	20174.6	-1078.07	0.360	159.3	≈ 4	Sheppard et al. 2007	25.5
S/2019 S7	334.859	20181.3	-1080.29	0.232	174.2	≈ 4	Ashton et al. 2019	26
S/2019 S8	336.570	20284.4	-1088.68	0.311	172.8	≈ 4	Ashton et al. 2019	26
Farbauti	336.704	20292.5	-1087.29	0.248	157.7	≈ 5	Sheppard et al. 2004	24.7
Thrymr	337.269	20326.5	-1091.84	0.467	174.8	≈ 9	Gladman et al. 2000	23.9
Bestla	337.458	20337.9	-1087.46	0.461	136.3	≈ 8	Sheppard et al. 2004	23.8
S/2019 S9	337.808	20359	-1093.11	0.433	159.5	≈ 4	Ashton et al. 2019	26
S/2004 S46	340.363	20513	-1107.58	0.249	177.2	≈ 3	Sheppard et al. 2004	26
Angrboda	341.657	20591	-1114.05	0.216	177.4	≈ 4	Sheppard et al. 2004	25.3
S/2019 S11	342.864	20663.7	-1115.00	0.513	144.6	≈ 4	Ashton et al. 2019	26
Aegir	342.878	20664.6	-1119.33	0.255	166.9	≈ 5	Sheppard et al. 2004	24.4
Beli	343.529	20703.8	-1121.76	0.087	158.9	≈ 4	Sheppard et al. 2004	25.4
S/2019 S10	343.688	20713.4	-1123.04	0.249	163.9	≈ 3	Ashton et al. 2019	26
S/2019 S12	346.859	20904.5	-1138.85	0.476	167.1	≈ 4	Ashton et al. 2019	26
Gerd	347.573	20947.5	-1142.97	0.517	174.4	≈ 4	Sheppard et al. 2004	25.2
S/2019 S13	347.876	20965.8	-1144.92	0.318	177.3	≈ 3	Ashton et al. 2019	26
S/2006 S14	349.474	21062.1	-1152.68	0.060	166.7	≈ 3	Sheppard et al. 2006	26
Gunnlod	350.798	21141.9	-1157.98	0.251	160.4	≈ 5	Sheppard et al. 2004	25.0
S/2019 S15	351.591	21189.7	-1161.54	0.257	157.7	≈ 3	Ashton et al. 2019	26.5
S/2020 S6	352.846	21265.3	-1168.86	0.481	166.9	≈ 3	Ashton et al. 2020	26
S/2004 S7	353.889	21328.2	-1173.93	0.511	164.9	≈ 5	Sheppard et al. 2004	24.7
S/2006 S3	354.301	21353	-1174.76	0.432	156.1	≈ 5	Sheppard et al. 2006	24.6
S/2005 S5	354.520	21366.2	-1177.82	0.588	169.5	≈ 3	Sheppard et al. 2005	25.8

## Księżycy planet i planet karłowatych Układu Słonecznego (c.d.)

Nazwa	a		P	e	i	Średnica [km]	Odkrywcia i rok odkrycia	m
	R	tys. km						
<b>Saturn (c.d.)</b>								
Skrymir	355,877	21448	-1185.15	0.437	175.6	≈ 5	Sheppard et al. 2004	24.8
S/2006 S16	360,402	21720,7	-1207.52	0.204	164.1	≈ 3	Sheppard et al. 2006	26
S/2006 S15	361,708	21799,4	-1213.96	0.117	161.1	≈ 4	Sheppard et al. 2006	25.7
S/2004 S28	362,811	21865,9	-1220.68	0.159	167.9	≈ 5	Sheppard et al. 2004	24.9
S/2020 S8	364,484	21966,7	-1228.12	0.252	161.8	≈ 3	Ashton et al. 2020	26
Alvaldi	364,963	21995,6	-1232.19	0.238	177.4	≈ 5	Sheppard et al. 2004	24.6
Kari	365,529	22029,7	-1231.01	0.482	153.0	≈ 8	Sheppard et al. 2006	23.9
S/2004 S48	367,304	22136,7	-1242.40	0.374	161.9	≈ 4	Sheppard et al. 2004	25.5
Geirrod	369,342	22259,5	-1251.14	0.539	154.4	≈ 4	Sheppard et al. 2004	25.1
Fenrir	370,542	22331,8	-1260.25	0.136	164.3	≈ 4	Sheppard et al. 2004	25.0
S/2004 S50	370,777	22346	-1260.44	0.450	164.0	≈ 3	Sheppard et al. 2004	25.8
S/2006 S17	371,423	22384,9	-1264.58	0.425	168.7	≈ 4	Sheppard et al. 2006	25.5
S/2004 S49	371,668	22399,7	-1264.25	0.453	159.7	≈ 4	Sheppard et al. 2004	25.7
S/2019 S17	377,051	22724,1	-1291.39	0.546	155.5	≈ 4	Ashton et al. 2019	25.5
Surtur	377,544	22753,8	-1296.49	0.449	168.3	≈ 5	Sheppard et al. 2006	24.8
S/2006 S18	377,658	22760,7	-1298.40	0.131	169.5	≈ 4	Sheppard et al. 2006	25.5
Loge	380,273	22918,3	-1311.83	0.192	166.9	≈ 6	Sheppard et al. 2006	24.6
Ymir	380,917	22957,1	-1315.16	0.337	173.1	≈ 22	Gladman et al. 2000	21.7
S/2019 S19	382,412	23047,2	-1318.05	0.458	151.8	≈ 3	Ashton et al. 2019	26
S/2004 S21	383,678	23123,5	-1325.43	0.394	153.2	≈ 4	Sheppard et al. 2004	25.4
S/2019 S18	383,963	23140,7	-1327.06	0.509	154.6	≈ 3	Ashton et al. 2019	26
S/2004 S39	384,871	23195,4	-1336.17	0.101	165.9	≈ 4	Sheppard et al. 2004	25.5
S/2019 S16	386,054	23266,7	-1341.17	0.250	162.0	≈ 3	Ashton et al. 2019	26
S/2004 S53	386,271	23279,8	-1342.44	0.240	162.6	≈ 4	Sheppard et al. 2004	25.8
S/2004 S24	387,252	23338,9	+1341.33	0.071	37.4	≈ 4	Sheppard et al. 2004	25.2
S/2004 S36	388,769	23430,3	-1352.93	0.625	153.3	≈ 4	Sheppard et al. 2004	25.3
Thiazzi	391,211	23577,5	-1366.68	0.511	158.8	≈ 4	Sheppard et al. 2004	25.0
S/2019 S20	392,888	23678,6	-1375.45	0.354	156.1	≈ 3	Ashton et al. 2019	26.5
S/2006 S19	394,921	23801,1	-1389.33	0.467	175.5	≈ 4	Sheppard et al. 2006	25.5
S/2004 S34	400,635	24145,5	-1420.77	0.279	168.3	≈ 4	Sheppard et al. 2004	25.3
Fornjot	413,773	24937,3	-1494.03	0.214	169.5	≈ 6	Sheppard et al. 2004	24.6
S/2004 S51	418,268	25208,2	-1519.43	0.201	171.2	≈ 4	Sheppard et al. 2004	25.5
S/2020 S10	420,037	25314,8	-1527.22	0.295	165.6	≈ 3	Ashton et al. 2020	26.5
S/2020 S9	422,017	25434,1	-1534.97	0.531	161.4	≈ 4	Ashton et al. 2020	26
S/2004 S26	433,018	26097,1	-1603.95	0.148	172.9	≈ 5	Sheppard et al. 2004	25.2
S/2019 S21	438,691	26439	-1636.32	0.155	171.9	≈ 4	Ashton et al. 2019	26
S/2004 S52	438,842	26448,1	-1633.98	0.292	165.3	≈ 3	Sheppard et al. 2004	26
<b>Uran (27)</b>								
Cordelia	1.95	49.770	0.335	0.00026	0.08479	50 × 36	R. Terrile 1986	23.1
Ophelia	2.10	53.790	0.376	0.00992	0.1036	54 × 38	R. Terrile 1986	22.8
Bianca	2.32	59.160	0.435	0.00092	0.193	64 × 46	Voyager 2 1986	22.0
Cressida	2.42	61.780	0.464	0.00036	0.006	92 × 74	S. P. Synnott 1986	21.1
Desdemona	2.45	62.680	0.474	0.00013	0.11125	90 × 54	S. P. Synnott 1986	21.5
Juliet	2.52	64.350	0.493	0.00066	0.065	150 × 74	S. P. Synnott 1986	20.6
Portia	2.59	66.090	0.513	0.00005	0.059	156 × 126	S. P. Synnott 1986	19.9
Rosalind	2.73	69.940	0.558	0.00011	0.279	72	S. P. Synnott 1986	21.3
Cupid	2.91	74.800	0.618	0.0013	0.1	~18	M. R. Showalter et al. 2003	26.0
Belinda	2.95	75.260	0.624	0.00007	0.031	128 × 64	S. P. Synnott 1986	21.0
Perdita	2.99	76.400	0.638	0.0012	0.470	30	E. Karkoschka 1999	24.0
Puck	3.36	86.010	0.762	0.00012	0.3192	162	S. P. Synnott 1985	19.2
Mab	3.82	97.700	0.923	0.0025	0.1335	~25	M. R. Showalter et al. 2003	26.0
Miranda	5.08	129.390	1.413	0.0013	4.232	481 × 468 × 466	G. Kuiper 1948	15.3
Ariel	7.47	191.020	2.520	0.0012	0.260	1162 × 1156 × 1155	W. Lassell 1851	13.2
Umbriel	10.41	266.300	4.144	0.0039	0.205	1169.4	W. Lassell 1851	14.0
Titania	17.07	435.910	8.706	0.0011	0.340	1576.8	W. Herschel 1787	13.0
Oberon	22.83	583.520	13.463	0.0014	0.058	1522.8	W. Herschel 1787	13.2
Francisco	167.30	4276.000	-266.56	0.1459	147.459	~22	M. Holman et al. 2001	25.0
Caliban	282.91	7230.000	-579.50	0.1587	139.885	~72	B. J. Gladman et al. 1997	22.4
Stephano	313.16	8002.000	-676.50	0.2292	141.873	~32	B. J. Gladman et al. 1999	24.1
Trinculo	332.72	8571.000	-758.10	0.2200	166.252	~18	M. Holman et al. 2001	25.4
Sycorax	476.51	12179.000	-1283.4	0.5224	152.456	165	P. D. Nicholson et al. 1997	20.8
Margaret	561.25	14345.000	1694.8	0.6608	51.455	~20	S. S. Sheppard et al. 2003	25.2
Prospero	636.02	16418.000	-1992.8	0.4448	146.017	~50	M. Holman et al. 1999	23.2
Setebos	681.48	17459.000	-2202.3	0.5914	145.883	~48	J. J. Kavelaars et al. 1999	23.3
Ferdinand	817.75	20900.000	-2823.4	0.3682	167.346	~20	M. Holman et al. 2001	25.1

## Księżyce planet i planet karłowatych Układu Słonecznego (c.d.)

Nazwa	a		P	e	i	Średnica [km]	Odkrywcia i rok odkrycia	m
	R	tys. km						
<b>Neptun (14)</b>								
Naiad	1.95	48.227	0.294	0.0003	4.691	96×60×52	R. Terrile et al. 1989	24.1
Thalassa	2.02	50.074	0.311	0.0002	0.135	108×100×52	R. Terrile et al. 1989	23.4
Despina	2.12	52.526	0.335	0.0002	0.068	180×148×128	S. P. Synnott et al. 1989	22.0
Galatea	2.50	61.953	0.429	0.0001	0.034	204×184×144	S. P. Synnott et al. 1989	22.0
Larissa	2.97	73.548	0.555	0.0014	0.205	216×204×168	H. Reitsema et al. 1989	21.5
Hippocamp	4.25	105.300	0.936	0.000	0.000	~16-20	M. Showalter et al. 2013	26.5
Proteus	4.75	117.646	1.122	0.0005	0.075	436×416×402	S. P. Synnott 1989	20.0
Triton	14.33	354.759	-5.877	0.0000	156.865	2705	W. Lassell 1846	13.0
Nereid	222.64	5513.818	360.13	0.7507	7.090	~340	G. Kuiper 1949	19.2
Halimede	635.12	16611.000	-1879.08	0.2646	112.898	~62	J. J. Kavelaars et al. 2002	24.5
Sao	905.43	22228.000	2912.72	0.1365	49.907	~44	J. J. Kavelaars et al. 2002	25.4
Laomedeia	951.83	23567.000	3171.33	0.3969	34.049	~42	J. J. Kavelaars et al. 2002	25.4
Psamathe	1885.60	48096.000	-9074.30	0.3809	137.679	~40	D. C. Jewitt et al. 2003	25.6
Neso	1953.93	49285.000	-9740.73	0.5714	131.265	~60	M. Holman et al. 2002	24.6
<b>Pluton (5)</b>								
Charon	15.24	17.536	6.38723	0.0022	0.001	1208	J. Christy 1978	16.8
Styx	36.50	42.656	20.15155	0.0058	0.81	16×9×8	M. R. Showalter 2012	27.0
Nix	42.32	48.694	24.85463	0.00204	0.133	50×35×33	M. J. Mutchler 2005	23.7
Kerberos	51.23	57.729	32.16756	0.00328	0.389	19×10×9	M. R. Showalter 2011	26.1
Hydra	56.25	64.738	38.20177	0.00586	0.242	65×45×25	M. J. Mutchler 2005	23.3
<b>Haumea</b>								
Namaka	14.8	25.657	-18.2783	0.249		~170	M. Brown 2005	21.9
Hi'iaka	28.7	49.880	49.462	0.0513	113.013	~310	M. Brown 2005	20.6
					126.356			
<b>Makemake</b>								
MK 2	28-400	21-300	12.4-660	?	?	175-250	A. Parker et al. 2015 <sup>56</sup>	25.1
<b>Eris</b>								
Dysnomia	32.12	37.350	-15.774	<0.013	142	684 <sup>57</sup>	M. Brown 2005	23.1

Tabela opracowana wg stanu na dzień 24 listopada 2023

### Oznaczenia w tabeli:

**a** – wielka półoś orbity [R – w promieniach planety, tys. km – w tysiącach kilometrów],

**P** – syderyczny okres obiegu (wartość ujemna oznacza ruch wsteczny, przeciwny do pozostałych satelitów) [doby ziemskie],

**e** – mimośród orbity,

**i** – nachylenie orbity do równika planety [°],

**m** – maksymalna jasność księżycy w 2024 r. [mag].

<sup>56</sup> Parker, A. H.; Buie, M. W.; Grundy, W. M.; Noll, K. S. (2016-04-25). "Discovery of a Makemakean Moon". arXiv:1604.07461

<sup>57</sup> Santos-Sanz, P.; et al. (2012). ""TNOs are Cool": A Survey of the Transneptunian Region IV. Size/albedo characterization of 15 scattered disk and detached objects observed with Herschel Space Observatory-PACS", <http://arxiv.org/abs/1202.1481> [dostęp: 13.11.2018]